

CLAIMS AMENDMENTS

1-20 (Canceled hereby without prejudice or disclaimer).

21 (New). A modular basal thumb joint implant comprising the following parts:

a head including a single, smooth, generally hemispherical, medio-proximally directed, articulating surface, and a generally abrupt, distally directed, planar end to the head which defines an end to said articulating surface, said articulating surface being continuous as to its sphericity and uninterrupted up to the end of said articulating surface so that said articulating surface defines a truncated ball of a shape that is from substantially hemispherical to greater than substantially hemispherical; and

a stem, which is attachable to the head, and which, when attached to the head, projects from the head along an axis, which arises from the generally planar end to the head and includes at least one of the following features:

- A) a general angle of projection from the head that is acute in relation to the generally planar end to the head;
- B) a flanged cross-sectional stem profile which, when taken in cross-section perpendicularly to the stem, is in a tri-flange shape, with three flanges without notches extending distally on the stem;
- C) an inwardly curved stem;
- D) an eccentric head site for the stem;

wherein said implant has its head of a size for mounting in and articulating with a correspondingly concavely prepared surface of

trapezium bone stock, and its stem of a size for intramedullary insertion in metacarpal bone stock.

22 (New). The implant of claim 21, which has at least the general angle of projection from the head which is acute in relation to the generally planar end to the head.

23 (New). The implant of claim 21, which has at least the flanged cross-sectional stem profile.

24 (New). The implant of claim 21, which has at least the inwardly curved stem.

25 (New). The implant of claim 21, which has at least the eccentric head site for the stem.

26 (New). The implant of claim 22, which further includes at least one of the flanged cross-sectional stem profile, the inwardly curved stem, and the eccentric head site for the stem.

27 (New). The implant of claim 22, which further includes the flanged cross-sectional stem profile, the inwardly curved stem, and the eccentric head site for the stem.

28 (New). The implant of claim 21, wherein the head has a stem trunion receiving cup in the generally planar end to the head, and the stem has a trunion for being received in said cup.

29 (New). The implant of claim 22, wherein the head has a stem trunion receiving cup in the generally planar end to the head, and the stem has a trunion for being received in said cup.

30 (New). The implant of claim 27, wherein the head has a stem trunion receiving cup in the generally planar end to the head, and the stem has a trunion for being received in said cup.

31 (New). The implant of claim 28, which has tapered walls

to said cup and said trunion for securing the head and stem together.

32 (New). The implant of claim 29, which has tapered walls to said cup and said trunion for securing the head and stem together.

33 (New). The implant of claim 30, which has tapered walls to said cup and said trunion for securing the head and stem together.

34 (New). The implant of claim 21, wherein the head is made of a suitable ceramic material, and the stem of a suitable metal.

35 (New). The implant of claim 22, wherein the head is made of a suitable ceramic material, and the stem of a suitable metal.

36 (New). The implant of claim 28, wherein the head is made of a suitable ceramic material, and the stem of a suitable metal.

37 (New). The implant of claim 21, wherein the head has a 13-mm to 19-mm diameter.

38 (New). A modular basal thumb joint implant comprising the following parts:

a head including a single, smooth, medio-proximally directed, articulating surface, and a generally abrupt, distally directed, planar end to the head which defines an end to said articulating surface, said articulating surface being continuous as to its sphericity and uninterrupted up to the end of said articulating surface so that said articulating surface defines a truncated ball of a shape that is greater than hemispherical; and

a stem, which is attachable to the head, and which, when attached to the head, projects from the head along an axis, which

arises from the generally planar end to the head and includes the following features:

- A) a general angle of junction of the stem with the head that is about from sixty-five to seventy-five degrees in relation to the generally planar end to the head;
- B) a tri-flanged cross-sectional stem profile;
- C) an inwardly curved stem; and
- D) an eccentric head junction site for the stem --

wherein said implant has its head of a size for mounting in and articulating with a correspondingly concavely prepared surface of trapezium bone stock, and its stem of a size for intramedullary insertion in metacarpal bone stock.

39 (New). The implant of claim 38, wherein the general angle of the junction of the stem with the head is about seventy degrees in relation to the generally planar end to the head, and the stem profile generally is T-shaped and tapers from the head to a distal end of the stem.